

Title (en)
SYSTEMS AND METHODS FOR MONITORING COUGH

Title (de)
SYSTEME UND VERFAHREN ZUR ÜBERWACHUNG VON HUSTEN

Title (fr)
SYSTEMES ET PROCEDES POUR SURVEILLER LA TOUX

Publication
EP 1781171 A4 20091021 (EN)

Application
EP 05763148 A 20050624

Priority
• US 2005022378 W 20050624
• US 58252004 P 20040624

Abstract (en)
[origin: WO2006002338A2] The present invention provides systems and methods for monitoring subjects, especially during sleep. Respiratory and sound data are recorded and coughs arousal are recognized as joint events in both of these signals having selected characteristics. Further, cough arousal events during sleep are recognized when a likely cough occurs in association with a recognized EEG arousal. Cough arousal events are combined into a cough arousal index that reflects disease severity and sleep disruption due to cough. The methods of this invention are computer-implemented and can be provided as a program product including a computer readable medium. Measurements and indices provided by this invention can be used to monitor and to treat respiratory diseases.

IPC 8 full level
A61B 5/08 (2006.01)

CPC (source: EP US)
A61B 5/0823 (2013.01 - EP); **A61B 5/0871** (2013.01 - EP); **A61B 5/113** (2013.01 - EP); **A61B 5/369** (2021.01 - EP); **A61B 5/372** (2021.01 - US); **A61B 5/398** (2021.01 - EP US); **A61B 5/4809** (2013.01 - EP); **A61B 5/4812** (2013.01 - EP); **A61B 7/003** (2013.01 - EP); **A61B 5/107** (2013.01 - EP); **A61B 5/389** (2021.01 - EP)

Citation (search report)
• [XY] EP 0956820 A1 19991117 - KARMEL MEDICAL ACOUSTIC TECHNO [IL]
• [YA] US 4240444 A 19801223 - SNYDER PETER E [US], et al
• [YA] US 5564429 A 19961015 - BORNIN ROBERT [US], et al
• [Y] US 2002165462 A1 20021107 - WESTBROOK PHILIP R [US], et al
• [Y] US 5197490 A 19930330 - STEINER SOLOMON S [US], et al
• [A] US 6436057 B1 20020820 - GOLDSMITH WILLIAM T [US], et al
• [A] WO 9716216 A1 19970509 - COMPUMEDICS SLEEP PTY LTD [AU], et al
• See references of WO 2006002338A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006002338 A2 20060105; WO 2006002338 A3 20090409; AU 2005258237 A1 20060105; AU 2005258237 A2 20060105;
CA 2578684 A1 20060105; CA 2578684 C 20170725; EP 1781171 A2 20070509; EP 1781171 A4 20091021; JP 2008506423 A 20080306;
JP 5344818 B2 20131120

DOCDB simple family (application)
US 2005022378 W 20050624; AU 2005258237 A 20050624; CA 2578684 A 20050624; EP 05763148 A 20050624; JP 2007518293 A 20050624